

09/770,706

MS158524.1/MSFTP158US

REMARKS

Claims 1-29 are currently pending in the subject application and are currently under consideration. Claims 1, 11, 22 and 29 have been amended. Claims 5, 12 and 26 have been canceled. A version of these claims is found at pages 2-5. Favorable reconsideration of the subject patent application is respectfully requested in view of the amendments and comments herein.

I. Rejection of Claims 1-29 Under 35 U.S.C. §102(e)

Claims 1-29 stand rejected under 35 U.S.C. §102(e) as being anticipated by Cabral *et al.* (US 6,697,062). It is respectfully submitted that this rejection should be withdrawn for at least the following reasons. Cabral *et al.* does not anticipate each and every element as set forth in the subject claims.

A single prior art reference anticipates a patent claim only if it expressly or inherently describes each and every limitation set forth in the patent claim. *Trintec Industries, Inc. v. Top-U.S.A. Corp.*, 295 F.3d 1292, 63 USPQ2d 1597 (Fed. Cir. 2002); *See Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). The identical invention must be shown in as complete detail as is contained in the ... claim. *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989).

The claimed invention relates to systems and methods for quickly and accurately rendering textured, lit spheres. Amended, independent claims 1, 11, 22 and 29 recite similar limitations, namely: a system/method for rendering an image of an object having a curved surface, comprising a determiner that determines M number of attributes relating to rendering the image, M being an integer, *wherein the determiner determines a diffuse lighting component and at least one of an ambient lighting component, a specular lighting component, an intensity, a pole vector, an equator vector, a latitude, a longitude, a color and a texture*; a first processor that pre-computes N number of attributes relating to rendering the image, N being an integer less than or equal to M, and the N number of attributes being pre-computable; and a second processor that computes the M number of attributes. Cabral *et al.* does not expressly or

09/770,706

MS158524.1/MSFTP158US

inherently disclose the aforementioned novel aspects of applicant's invention as recited in the subject claims.

Cabral *et al.* discloses a method, system and computer program product for reflection space image based rendering of an object at an interactive frame rate. Cabral *et al.* includes the application of image-based rendering (IBR) techniques in reflection space and the use of a hybrid rendering algorithm. The system utilizes reflection space IBR applied to radiance environment maps. A radiance environment map pre-integrates a Bidirectional Reflection Distribution Function (BRDF) with a lighting environment. Using the reflection-space IBR algorithm on radiance environment maps allows interactive rendering of arbitrary objects with a large class of complex BRDF's in arbitrary lighting environments. (See Col. 5, lines 12-42)

The Examiner cites Col. 7, line 43 and Col. 10, lines 58-59, as disclosing a lighting component to satisfy the present claim limitation. However, Cabral *et al.* does not disclose a determiner utilizing *a diffuse lighting component and* at least one of an ambient lighting component, a specular lighting component, an intensity, a pole vector, an equator vector, a latitude, a longitude, a color and a texture that can be employed in ultimately rendering the image, as now recited in the subject claims.

In view of at least the above, it is readily apparent that Cabral *et al.* fails to expressly or inherently disclose applicant's claimed invention as recited in amended, independent claims 1, 11, 22 and 29 (and claims 2-4, 6-10, 13-21, 23-25 and 27-28 which respectively depend there from). Accordingly, it is respectfully requested that these claims be deemed allowable.

09/770,706

MS158524.1/MSFTP158US

CONCLUSION

The present application is believed to be condition for allowance in view of the above comments. A prompt action to such end is earnestly solicited.

In the event any fees are due in connection with this document, the Commissioner is authorized to charge those fees to Deposit Account No. 50-1063 [MSFTP158US].

Should the Examiner believe a telephone interview would be helpful to expedite favorable prosecution, the Examiner is invited to contact applicant's undersigned representative at the telephone number listed below.

Respectfully submitted,

AMIN & TUROCY, LLP



Himanshu S. Amin

Reg. No. 40,894

AMIN & TUROCY, LLP
24TH Floor, National City Center
1900 E. 9TH Street
Cleveland, Ohio 44114
Telephone (216) 696-8730
Facsimile (216) 696-8731